# **PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY	I tak SmithKline						
Middlesex TW8 9GS UNITED KINGDOM  ATTY: AKA WATTY: AKA	THE WRITTEN OPINION OF THE INTERNATIONAL NT ISOARCHING AUTHORITY, OR THE DECLARATION Received Stevenage						
Applicant's or agent's file reference	<u>- in and a second a second and a second and</u>						
ARG/PB60476	FOR FURTHER ACTION See paragraphs 1 and 4 below						
International application No.	International filing date (day/month/year) 02/09/2004 Company						
PCT/EP2004/009819	, Potate (b						
GLAXO GROUP LIMITED	2 4 JAN 2005  Received Stevenage						
1. X The applicant is hereby notified that the international search	report and the written opinion of the International Searching						
Authority have been established and are transmitted herewit							
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is nore International Search Report; however, for more	• • • • • • • • • • • • • • • • • • • •						
Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the accordance.	scimile No.: (41-22) 740.14.35						
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the In	ternational Searching Authority are transmitted herewith.						
3. With regard to the protest against payment of (an) additio	nal fee(s) under Rule 40.2, the applicant is notified that:						
	n transmitted to the International!Bureau together with the est and the decision thereon to the designated Offices.  Illicant will be notified as soon as a decision is made.						
4. Reminders							
International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Br	Shortly after the expiration of <b>18 months</b> from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the international Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.						
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.							
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.							
In respect of other designated Offices, the time limit of 30 months months.	In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19						
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.							
Name and mailing address of the International Searching Authority	Authorized officer						
European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Josef Ullrich						

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international phylication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
  claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11):
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

# Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220					
ARG/PB60476	ACTION	as well	as, where applicable, item 5 below.					
International application No.	International filing date (day/monti	vyear)	(Earliest) Priority Date (day/month/year)					
PCT/EP2004/009819	02/09/2004		04/09/2003					
Applicant								
GLAXO GROUP LIMITED								
This International Search Report has bee according to Article 18. A copy is being tra			nority and is transmitted to the applicant					
This International Search Report consists	of a total of6 sh	ets.						
X It is also accompanied by	a copy of each prior art document of	ited in this	report.					
language in which it was filed, un	less otherwise indicated under this it	em.	sis of the international application in the					
The international this Authority (Ru		of a transl	ation of the international application furnished to					
b. With regard to any nucle	otide and/or amino acid sequence	disclosed	in the international application, see Box No. 1.					
2. Certain claims were fou	nd unsearchable (See Box II).							
3. Unity of invention is lac	king (see Box III).							
4. With regard to the <b>title</b> ,								
the text is approved as su	ubmitted by the applicant.							
	shed by this Authority to read as folk							
1	PROCESS FOR THE PREPARATION OF (1S,4R)-CIS-4-'2-AMINO-6-CHLORO-9H-PURIN-9-YL!-2-CYCLOPENTENE-1-METHANOL							
5. With regard to the abstract,								
	ubmitted by the applicant.							
the text has been establismay, within one month for								
6. With regards to the <b>drawings</b> ,								
a. the figure of the drawings to be	published with the abstract is Figure	No						
as suggested by								
=	is Authority, because the applicant I							
	iis Authority, because this figure bet be published with the abstract.	er charact	erizes the invention. .·					
D. [] Holle of the figures is to t	population with the abstract.							

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

# A process for preparing a chloropurine compound of formula (I)

(1)

or a derivative thereof, which comprises ring closure of the compound of formula (VII) or a derivative thereof

(VII)

in the presence of catalytic acid and at least one equivalent of a formate derivative.

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International Application No PCT/EP2004/009819

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D473/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data, WPI Data

C. DOCUM	NTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/19327 A (ACTIONTEC ELECTRONICS INC) 6 April 2000 (2000-04-06) cited in the application examples A-D	1-10
A	EP 0 628 044 A (WELLCOME FOUND) 14 December 1994 (1994–12–14) example 25	1-10
A	EP 0 741 710 A (WELLCOME FOUND) 13 November 1996 (1996-11-13) example 11b	1-10
	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  A* document defining the general state of the art which is not considered to be of particular relevance  E* earlier document but published on or after the international filing date  L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O* document referring to an oral disclosure, use, exhibition or other means  P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul>
Date of the actual completion of the international search  13 December 2004	Date of mailing of the international search report  21/01/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Baston, E

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International Application No PCT/EP2004/009819

Category °	cition) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
alegoly	onanon or occurrent, min mulcation, miere appropriate, or the relevant passages	relevant to claim No.
	VINCE ET AL: "Synthesis and Anti-HIV Activity of Carbocyclic 2',3'-Didehydro-2',3'-dideoxy 2,6-Disubstituted Purine Nucleosides" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 33, no. 1, 1990, pages 17-21, XP002109188 ISSN: 0022-2623 page 20; example 6a	1-10
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Information on patent family members

International Application No
PCT/EP2004/009819

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	atent document d in search report		Publication date		Patent family member(s)	Publication date
WO	0019327	Α	06-04-2000	US	6119162 A	12-09-2000
		• •		ĂÜ	6057599 A	17-04-2000
				TW	432328 B	01-05-2001
				WO	0019327 A1	06-04-2000
	0628044	 А	14~12~1994	 AT	245646 T	15-08-2003
E.F	0020044	^	14-12-1994	AU	707075 B2	01-07-1999
				AU	2489197 A	28-08-1997
				AU	3571093 A	13-09-1993
				CA	2130755 A1	26-08-1993
				DE	69333109 D1	28-08-2003
				DE	69333109 T2	15-04-2004
				DK	628044 T3	17-11-2003
				EP	0628044 A1	14-12-1994
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EP	0741710	Α	13-11-1996	AT	1927 <b>42</b> T	15-05-2000
				AU	690203 B2	23-04-1998
				AU	1543895 A	21-08-1995
				BR	9506667 A	16-09-1997
				DE	69516847 D1	15-06-2000
				DE DK	69516847 T2	26-10-2000
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				JP	9508412 T	26-08-1997
				NO	963239 A	02-10-1996
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				PL	315713 A1	25-11-1996
				RU	2140913 C1	10-11-1999
				SI	741710 T1	31-08-2000
				US	6448403 B1	10-09-2002
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				CA	2182105 A1	01-01-2003
				CN CN	1388123 A 1139924 A ,B	08-01-1997
				ES	2148486 T3	16-10-2000
				WO	9521161 A1	10-08-1995
				ĬL	112539 A	31-08-2000
				PT	741710 T	29-09-2000
				SG	47918 A1	17-04-1998
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				US	2002173649 A1	21-11-2002

Information on patent family members

International Application No
PCT/EP2004/009819

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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			US	5917042 A	29-06-1999
			US	6555687 B1	29-04-2003
			ZA	9500884 A	05-08-1996

## PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP2004/009819 02.09.2004 04.09.2003 International Patent Classification (IPC) or both national classification and IPC C07D473/00 Applicant **GLAXO GROUP LIMITED** This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. II **Priority** Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial ☑ Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: **Authorized Officer** 

**European Patent Office** D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Baston, E

Telephone No. +49 89 2399-8229



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009819

	Box N	o. I Basis of the opinion					
<ol> <li>With regard to the language, this opinion has been established on the basis of the international ap the language in which it was filed, unless otherwise indicated under this item.</li> </ol>							
	la	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).					
2.		egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:					
	a. type	of material:					
		a sequence listing					
		table(s) related to the sequence listing					
	b. form	nat of material:					
		in written format					
		in computer readable form					
	c. time	of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	h: C0	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as oppopriate, were furnished.					
4.	Additi	onal comments:					

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009819

	Box No. II Priorit	У								
1. 1		The following document has not been furnished:								
	□ copy of	☑ copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).								
	□ translat	ion of the earlier appl	ication who	se priority has been claimed (Rule 43bis.1	and 66.7(b)).					
	Consequently inevertheless b	t has not been possib een established on th	le to conside assumption	ler the validity of the priority claim. This opion that the relevant date is the claimed prior	nion has ority date.					
2.	has been found		1 and 64.1)	ity had been claimed due to the fact that the street that the purposes of this opinion, the ne relevant date.						
3.	was not availal	It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.								
				bis.1(a)(i) with regard to novelty, inventi	ive step or					
	Statement	omty; chations and e	explanation	ns supporting such statement						
	Novelty (N)	Yes: No:	Claims Claims	1-10						
	Inventive step (IS)	Yes: No:	Claims Claims	1-10						
	Industrial applicabi	lity (IA) Yes: No:	Claims Claims	1-10						

2. Citations and explanations see separate sheet

## To section V

The following documents were cited in the search report and were considered for the examination of the present application:

- D1: WO 00/19327 A (ACTIONTEC ELECTRONICS INC) 6 April 2000 (2000-04-06)
- D2: EP-A-0 628 044 (WELLCOME FOUND) 14 December 1994 (1994-12-14)
- D3: EP-A-0 741 710 (WELLCOME FOUND) 13 November 1996 (1996-11-13)
- D4: VINCE ET AL: "Synthesis and Anti-HIV Activity of Carbocyclic 2',3'-Didehydro-2',3'-dideoxy 2,6-Disubstituted Purine Nucleosides" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 33, no. 1, 1990, pages 17-21, XP002109188 ISSN: 0022-2623

The present application is directed to a ring closure procedure for compound (VII) resulting in the formation of compound (I), which itself is a precursor for the manufacture of the antiviral compound abacavir. The essential feature of the process is the use of a catalytic amount of an acid. All documents of the prior art make use of excess acid (HCI), in order to make process the ring closure. Thus novelty is acknowledged (Art. 33(2) PCT).

From the documents of the prior art a skilled person would not have been able to derive that the use of catalytic amounts of an acid (e.g. H<sub>2</sub>SO<sub>4</sub> conc) like in the examples results in the formation of the desired product in high yield and high purity. Thus the involvement of an inventive step is acknowledged (Art. 33(3) PCT).

Claim 10 is not allowable in view of Rule 6.2(a) PCT, since it refers to examples from the description.

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